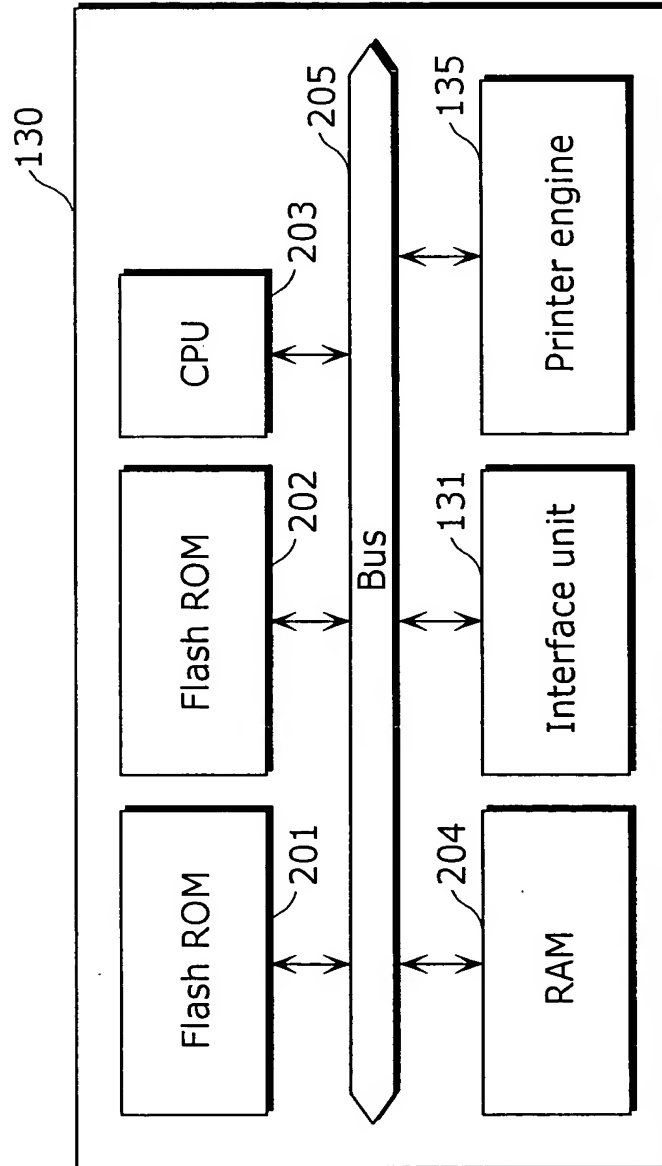


Fig. 1

Fig. 2



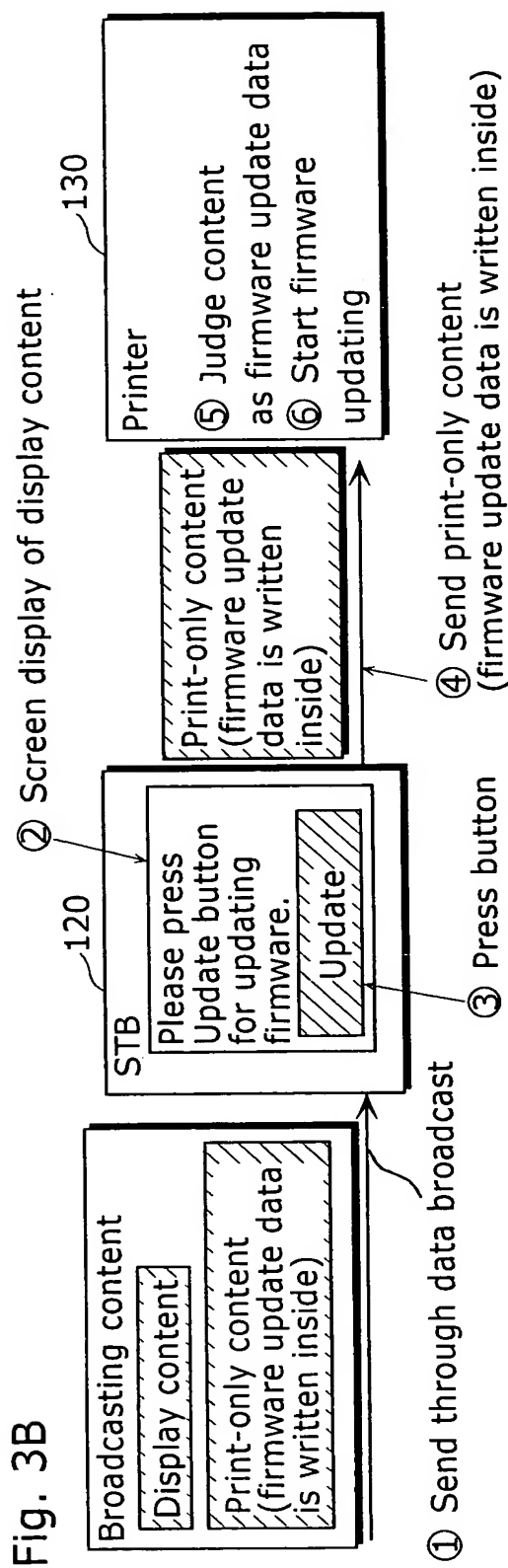
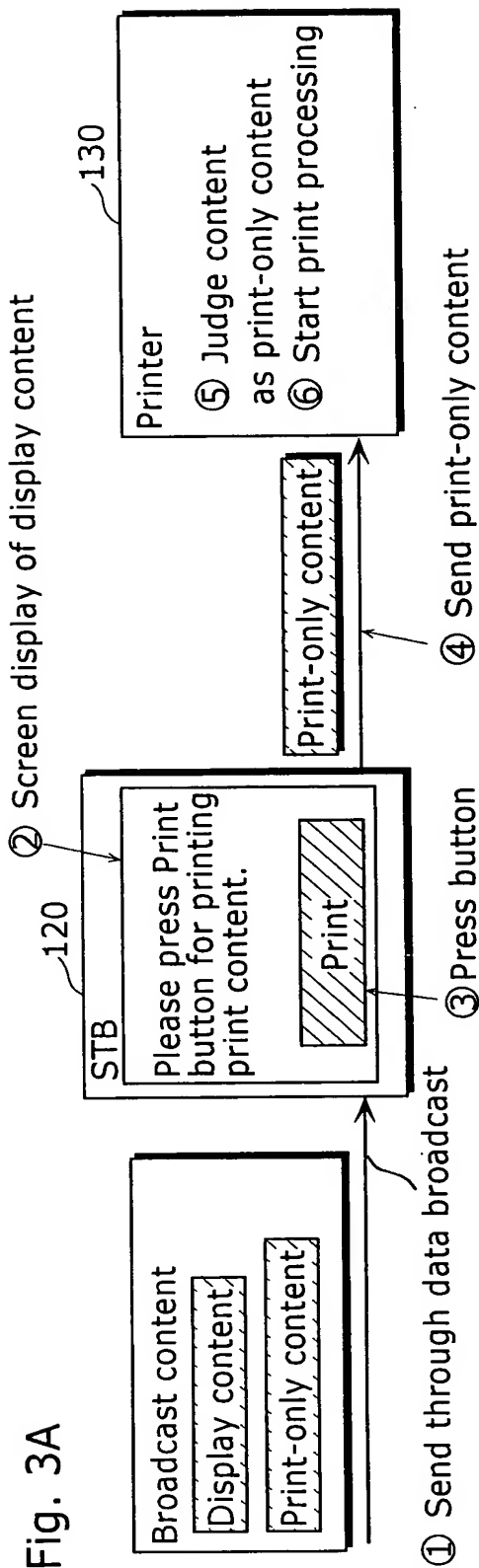


Fig. 4A

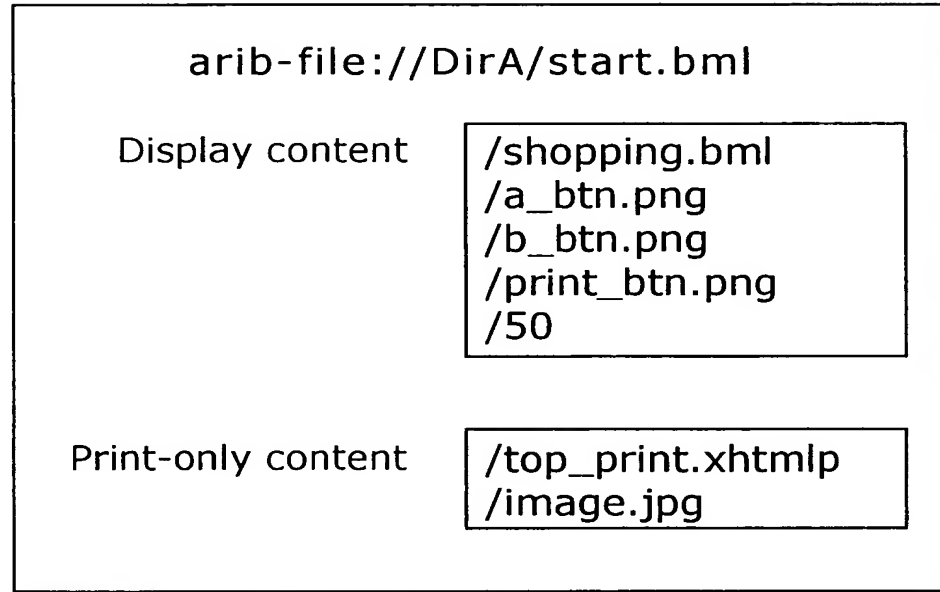


Fig. 4B

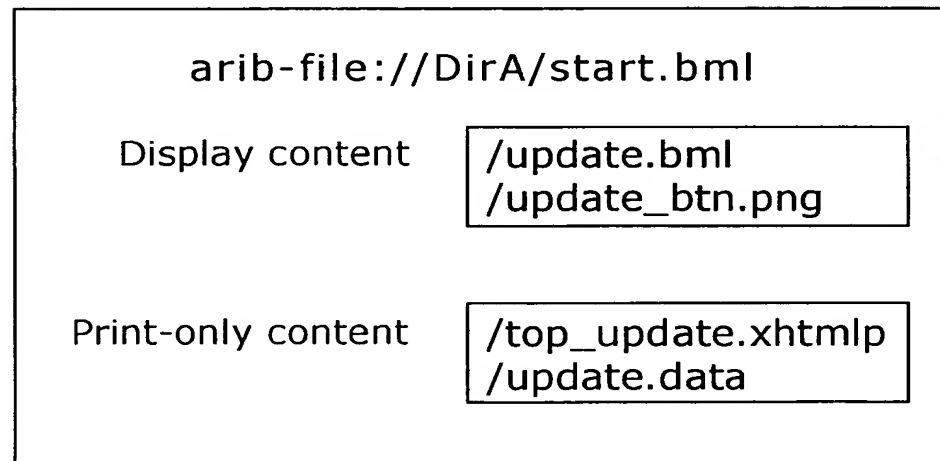
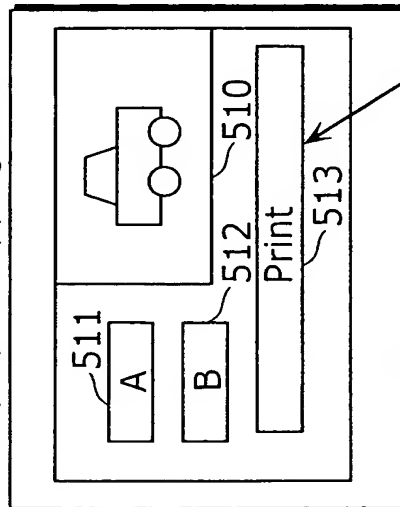


Fig. 5B

Fig. 5A

Display "Shopping.bml"



```

L501 <?xml version="1.0" encoding="Shift_JIS" ?>
L502 <!DOCTYPE bml PUBLIC "-//ARIB STD-B24:1999//DTD BML
Document//JA" "bml_1_0.dtd">
L503 <?bml bml-version="1.0" ?>
L504 <bml>
L505 <head>
L506 <title>shopping</title>
L507 <script>
<![CDATA[
function keydown() {
    browser.print("./top_print.xhtmllp");
}]>
</script>
</head>
<body>
    <object id="video" type="video/X-arib-mpeg2" data="/50"
        style="left:528px; top:40px; width:360px; height:202px" />
    <object type="image/X-arib-png" id="A" data="a_btn.png"
        style="left:68px; top:150px; width:176px; height:48px;" />
    <object type="image/X-arib-png" id="B" data="b_btn.png"
        style="left:68px; top:300px; width:176px; height:48px;" />
    <object type="image/X-arib-png" id="print" data="print_btn.png"
        style="left:80px; top:456px; width:720px; height:48px;"
        onkeydown="keydown();" />
</body>
</bml>

```

Fig. 6

```

<?xml version="1.0"?>
<!DOCTYPE html PUBLIC "-//PWG//DTD XHTML-Print 1.0//EN"
"http://www.pwg.org/xhtml-print/xhtml-print10.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <title> TV Shopping </title>
</head>
<body>
  <p>
    TV shopping through data broadcast
    :
    (Omission)
    :
    End of printing
  </p>
  <!? image__>
    <object type="image/jpeg" data="image.jpeg"
      style="left:528px; top:40px; width:360px; height:202px"/>
  </body>
</html>

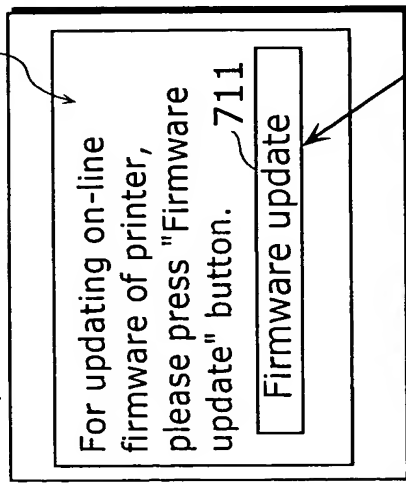
```

L601

L602

Fig. 7B

Fig. 7A
"update.bml" display 710



```

<?xml version="1.0" encoding="Shift_JIS" ?>
<!DOCTYPE bml PUBLIC "-//ARIB STD-B24:1999//DTD BML
Document//JA" "bml_1_0.dtd">
<?bml bml-version="1.0" ?>
<bml>
  <head>
    <title>update</title>
  </head>
  <script>
    <![CDATA[
      function keydown() {
        browser.print("./top_update.xhtmlp");
      }
    ]]>
  </script>
</head>
<body>
  <p>
    For updating on-line firmware of printer,
    please press "Firmware update" button.
  </p>
  <object type="image/X-arib-png" id="print" data="update_btn.png"
    style="left:68px; top:456px; width:176px; height:48px;"
    onkeydown="keydown();" />
</body>
</bml>

```

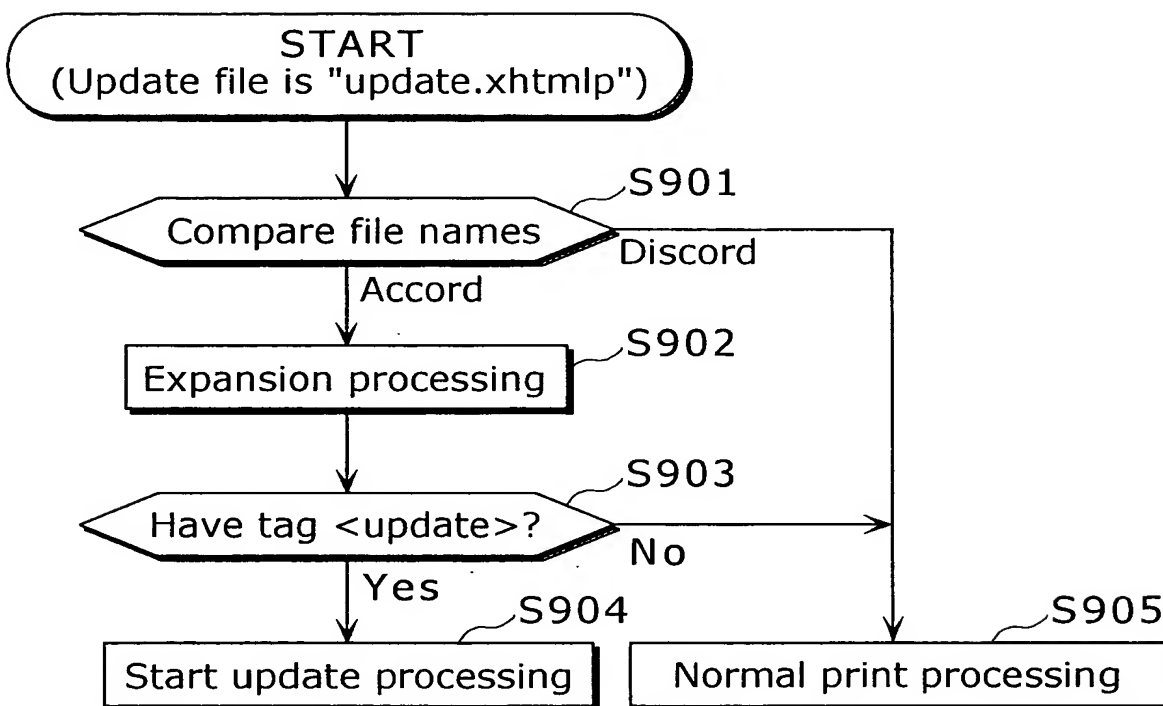
Fig. 8

```

<?xml version="1.0"?>
<!DOCTYPE html PUBLIC "-//PWG/DTD XHTML-Print 1.0//EN"
"http://www.pwg.org/xhtml-print/xhtml-print10.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <title> Update </title>
</style>
</head>
<body>
  <update printer_vendor="MEI" soft_version="5.0.1"
    machine_type="cefiro2002" option_unit=""
    src="update.data"/> L801
  <p>version of firmware is updated.
    present version is "5.0.1"</p> L803
</update>
</body>
</html>

```


Fig. 9



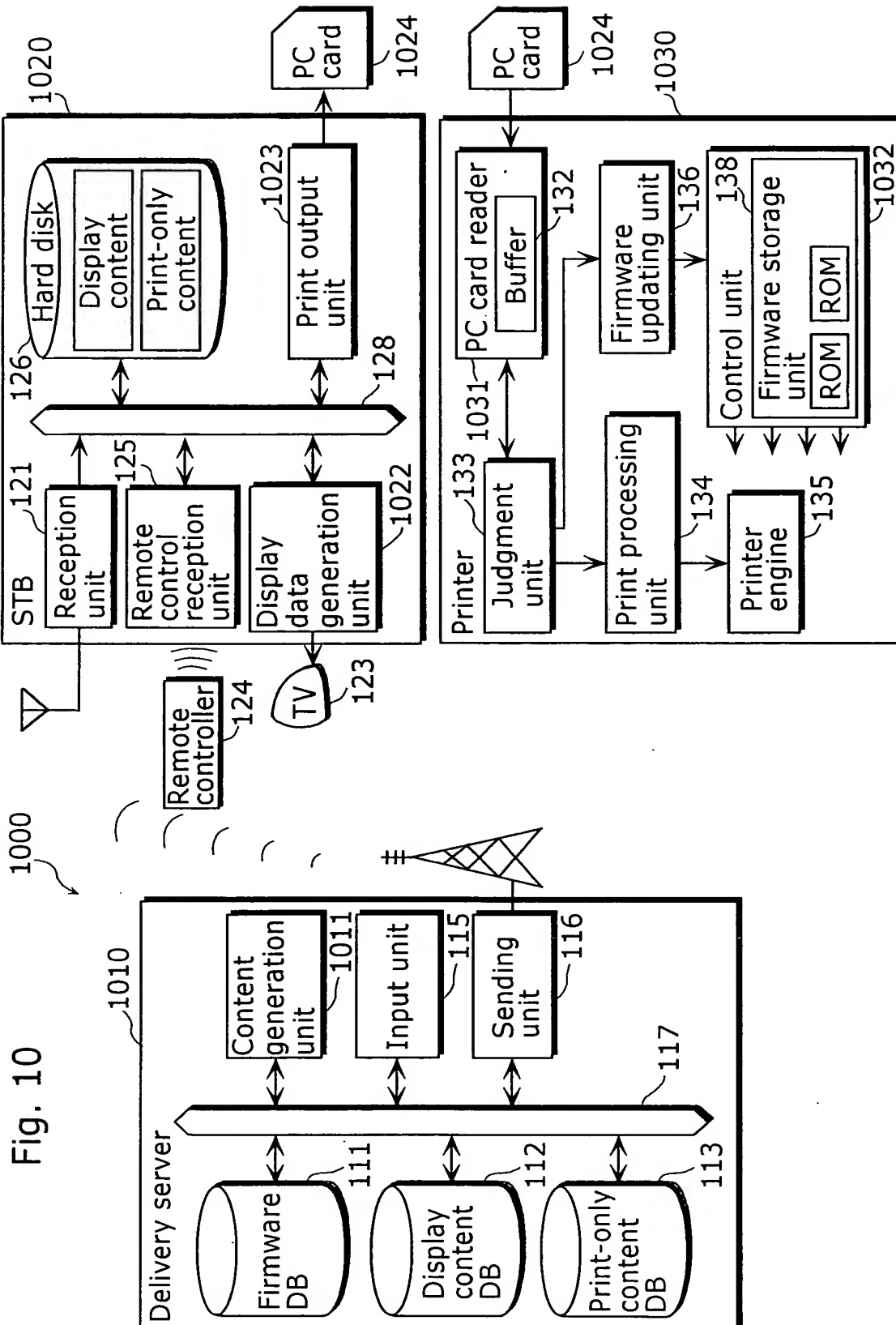


Fig. 10

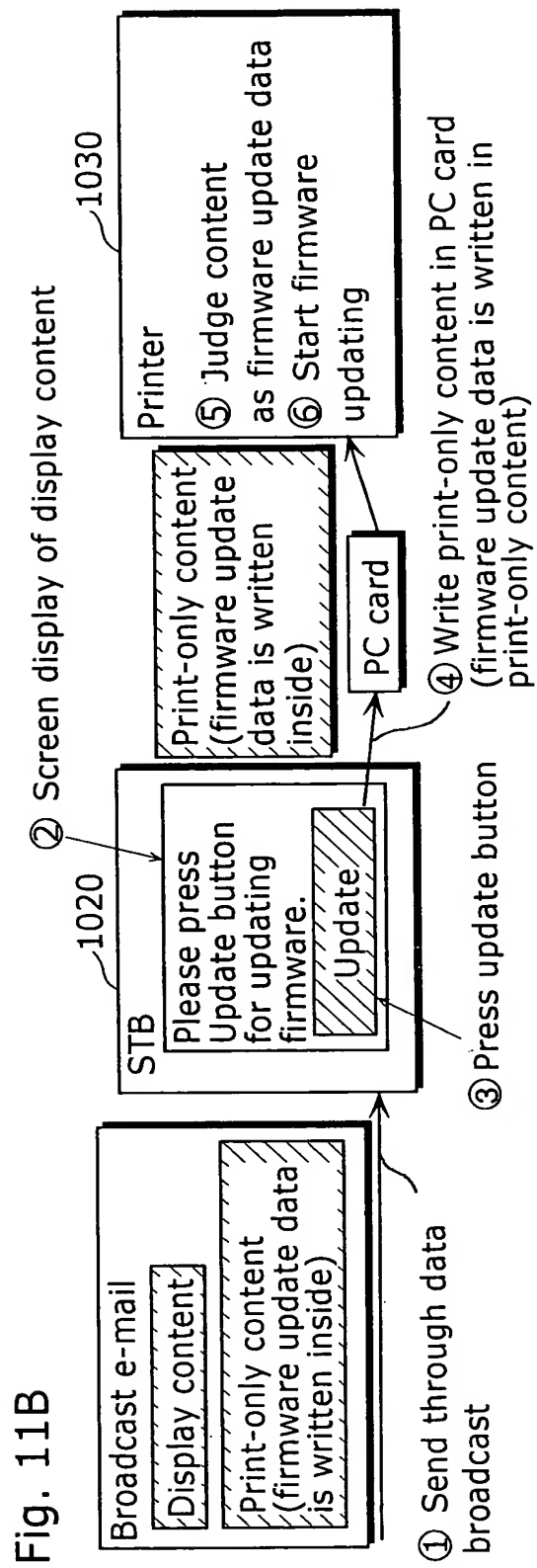
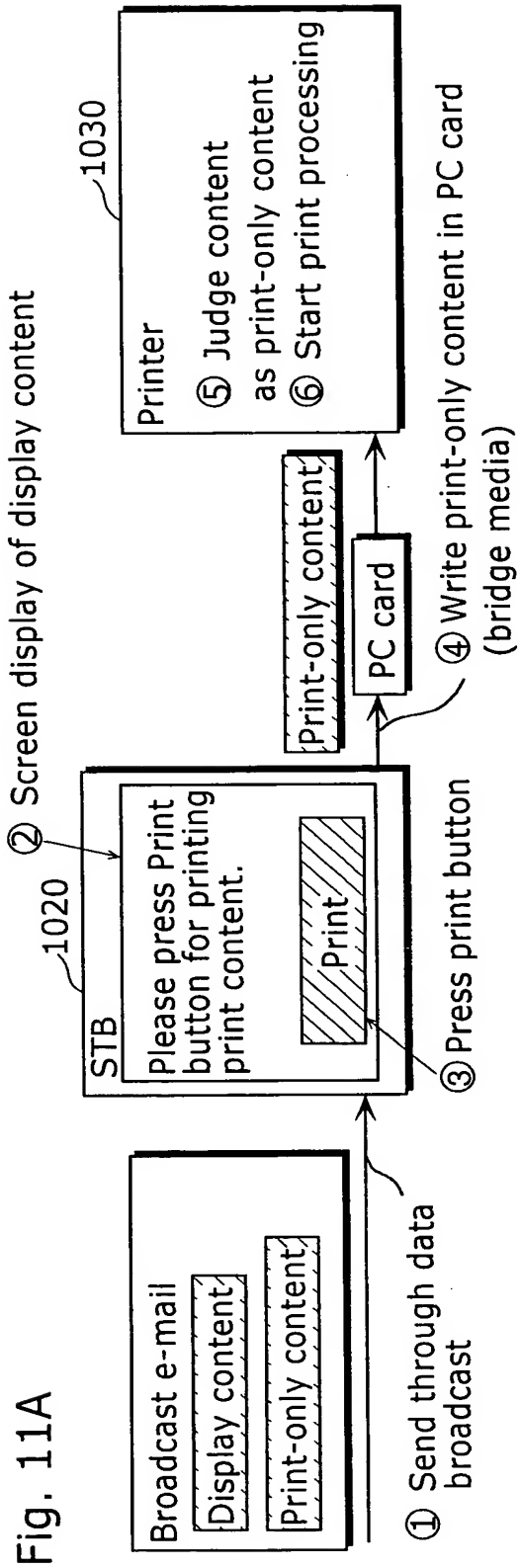
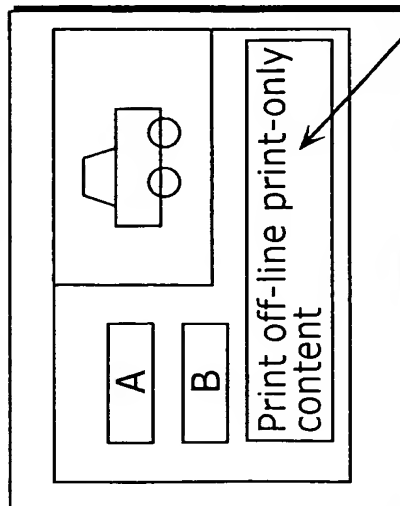


Fig. 12B

Fig. 12A

Display "Shopping.bml"



```

<?xml version="1.0" encoding="Shift_JIS" ?>
<!DOCTYPE bml PUBLIC "-//ARIB STD-B24:1999//DTD BML
Document//JA" "bml_1_0.dtd">
<?bml bml-version="1.0" ?>
<bml>
  <head>
    <title>shopping</title>
  </head>
  <script>
    <![CDATA[
      function keydown() {
        browser.save("./top_print.xhtml", "SD");
        browser.save("./image.jpg", "SD");
      }
    ]]>
  </script>
  </head>
  <body>
    <object id="video" type="video/X-arib-mpeg2" data="/50"
      style="left:528px; top:40px; width:360px; height:202px" />
    <object type="image/X-arib-png" id="A" data="a_btn.png"
      style="left:68px; top:456px; width:176px; height:48px;" />
    <object type="image/X-arib-png" id="B" data="b_btn.png"
      style="left:68px; top:456px; width:176px; height:48px;" />
    <object type="image/X-arib-png" id="print" data="print_btn.png"
      style="left:68px; top:456px; width:176px; height:48px;"
      onkeydown="keydown();" />
  </body>
</bml>

```

L1201

L1202

Fig. 13B

```

<?xml version="1.0" encoding="Shift_JIS" ?>
<!DOCTYPE bml PUBLIC "-//ARIB STD-B24:1999//DTD BML
Document//JA" "bml_1_0.dtd">
<?bml bml-version="1.0" ?>
<bml>
  <head>
    <title>update</title>
  </head>
  <script>
    <![CDATA[
      function keydown() {
        browser.save("/top_update.xhtmlp", "SD"); L1301
        browser.save("/update.data", "SD");
      }
    ]]>
  </script>
</head>
<body>
  <p>
    Firmware of printer needs to be updated.
    Please press Firmware update button and update firmware.
  </p>
  <object type="image/X-arib-png" id="print" data="update_btn.png"
    style="left:68px; top:456px; width:176px; height:48px;"
    onkeydown="keydown();" />
</body>
</bml>

```

L1302

L1303

Fig. 13A

Display "update.bml"

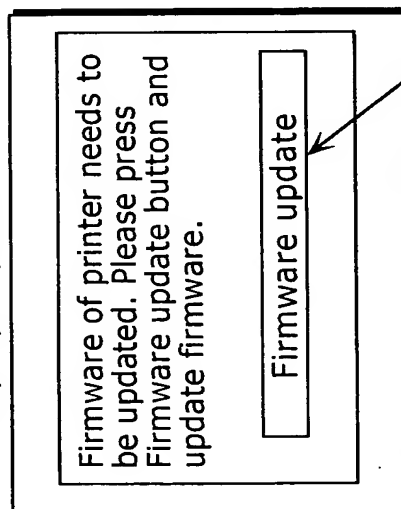


Fig. 14

```
<?xml version="1.0"?>
<!DOCTYPE html PUBLIC "-//PWG//DTD XHTML-Print 1.0//EN"
"http://www.pwg.org/xhtmll-print/xhtmll-print10.dtd">
<html xmlns="http://www.w3.org/1999/xhtmll">
  <head>
    <title> Test Pages </title>
  </style>
  </head>
  <body>
    <update printer_vendor="MEI" version="5.0.1">
      src="http://www.virtual.co.jp /firm.data"/>
    </update>
  </body>
</html>
```

L1401

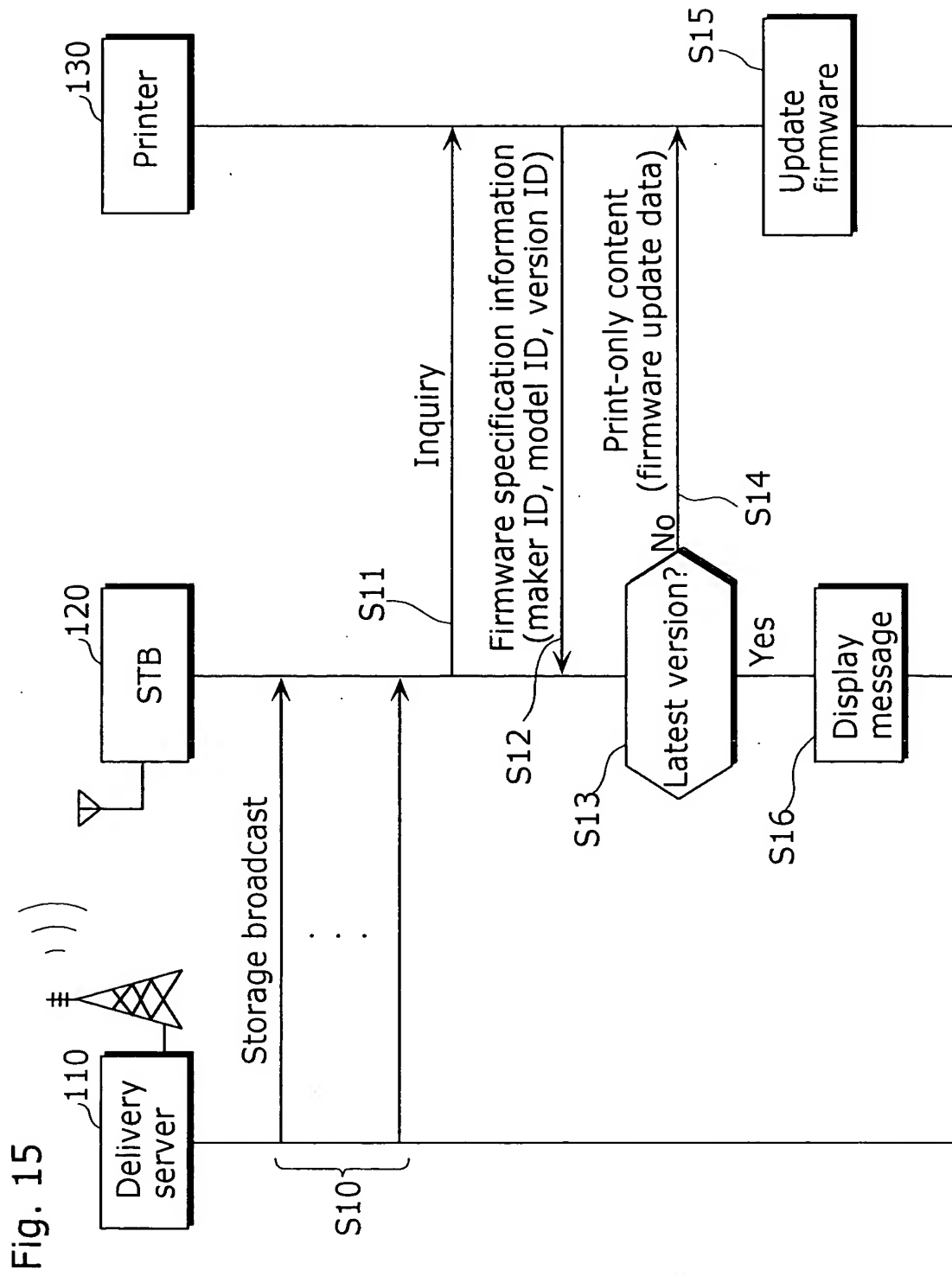


Fig. 16

```

<?xml version="1.0" encoding="Shift_JIS" ?>
<!DOCTYPE bml PUBLIC "-//ARIB STD-B24:1999//DTD BML
Document//JA" "bml_1_0.dtd">
<?bml bml-version="1.0" ?>
<bml>
  <head>
    <title>update</title>
    <script>
<![CDATA[
  function keydown() {
    //in the case of only two makers
    if{browser.getPrinterMaker ID()==10} //in the case where maker ID is 10
    {
      if{browser.getPrinterTypeID()==1} //in the case where model ID is 1
      {
        if{browser.getPrinterSoftwareVersion()<2} //in the case where version ID is no
more than 2
        {
          browser. print ".top_update_maker10_type1_v2.xhtmlp ");//print
(actualy update version)
        }
        else//in the case where model ID is 2
        {
          //make visible button "This is latest version. No need to
update firmware".
          //processing details omitted
        }
      }
      else 1*(browser. getPrinterTypeID()==2) //in the case where model ID is 2
      {
        //only ".top_update_maker10_type1_v2.xhtmlp" changes as
in the case where model ID is 1
      }
      else //in the case where model ID is neither 1 nor 2
      {
        // make visible button "No version-upgrade data corresponding to
model is found".
        //processing details omitted
      }
    }
    else if (browser getPrinterMakerID()==20) //in the case where maker ID is 20
    {
      //omitted as in the case where maker ID is 10
    }
    else//in the case where maker ID is neither 10 nor 20
    {
      // make visible button "No version-upgrade data corresponding to
maker is found".
    }
  }
]]>
</script>
</head>
<body>
  <p>
    For updating on-line firmware of printer, please press
    "Firmware update" button.
  </p>
  <object type="image/X-arib-png" id="print" data="print_btn.png"
style="left:68px; top:456px; width:176px; height:48px;"
onkeydown="keydown();" />
</body>
</bml>

```


Fig. 17

Examples of API:

int browser. getPrinterMakerID():

Return value: -1 (error)

No fewer than 0 is maker ID

int browser. getPrinterTypeID():

Return value: -1 (error)

No fewer than 0 is model ID (maker uniquely assigns)

int browser. getPrinterSoftwareVersion():

Return value: -1 (error)

No fewer than 0 is version ID (maker uniquely assigns)

Fig. 18

Examples of API:

int browser. getCapablePrinterNumber():

Return value: -1: error

0: success

N: number of printers connected

int browser. getCapablePrinterList(int List[]):

Argument: printer list: (variable length sequence:
update value)

Return value: -1: error

0: success

int browser. getPrinterMakerID(int printerID):

Argument: printer ID (printer ID obtained from "browser.
getCapablePrinterList")

Return value: -1: (error)

No fewer than 0 is maker ID

int browser. getPrinterTypeID():

Argument: printer ID (printer ID obtained from "browser.
getCapablePrinterList")

Return value: -1: (error)

No fewer than 0 is model ID
(maker uniquely assigns)

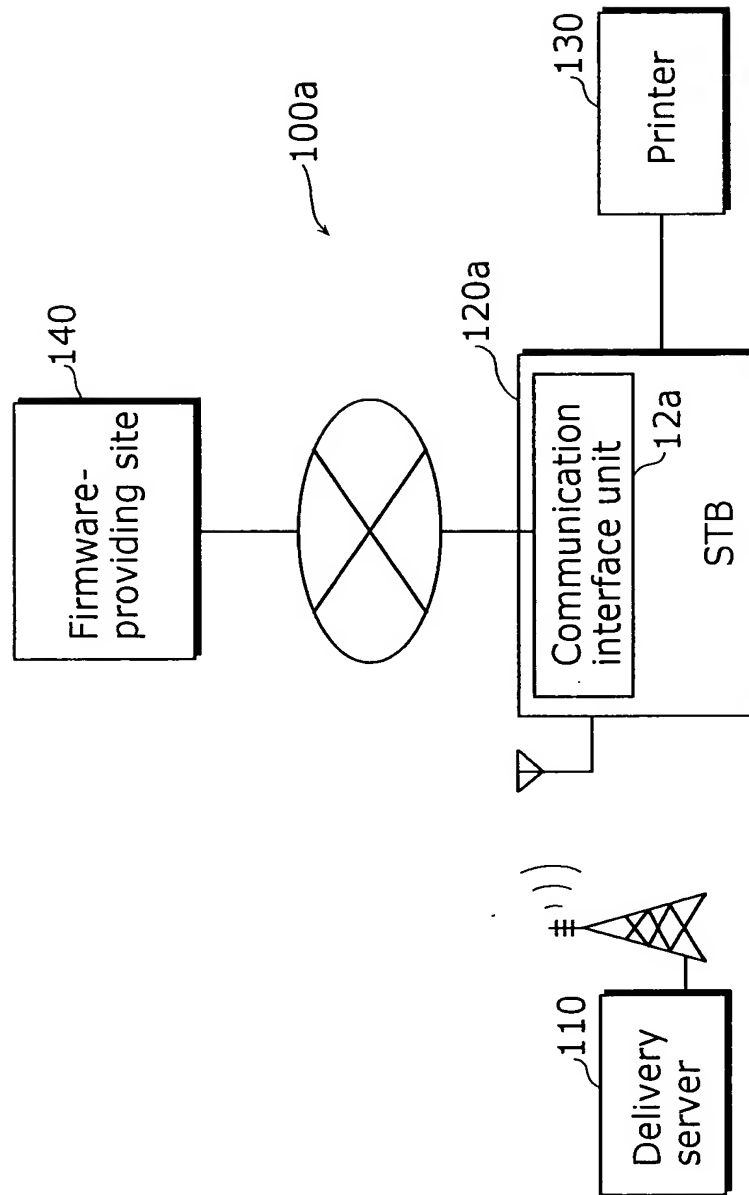
int browser. getPrinterSoftwareVersion():

Argument: printer ID (printer ID obtained from "browser.
getCapablePrinterList")

Return value: -1: (error)

No fewer than 0 is version ID
(maker uniquely assigns)

Fig. 19



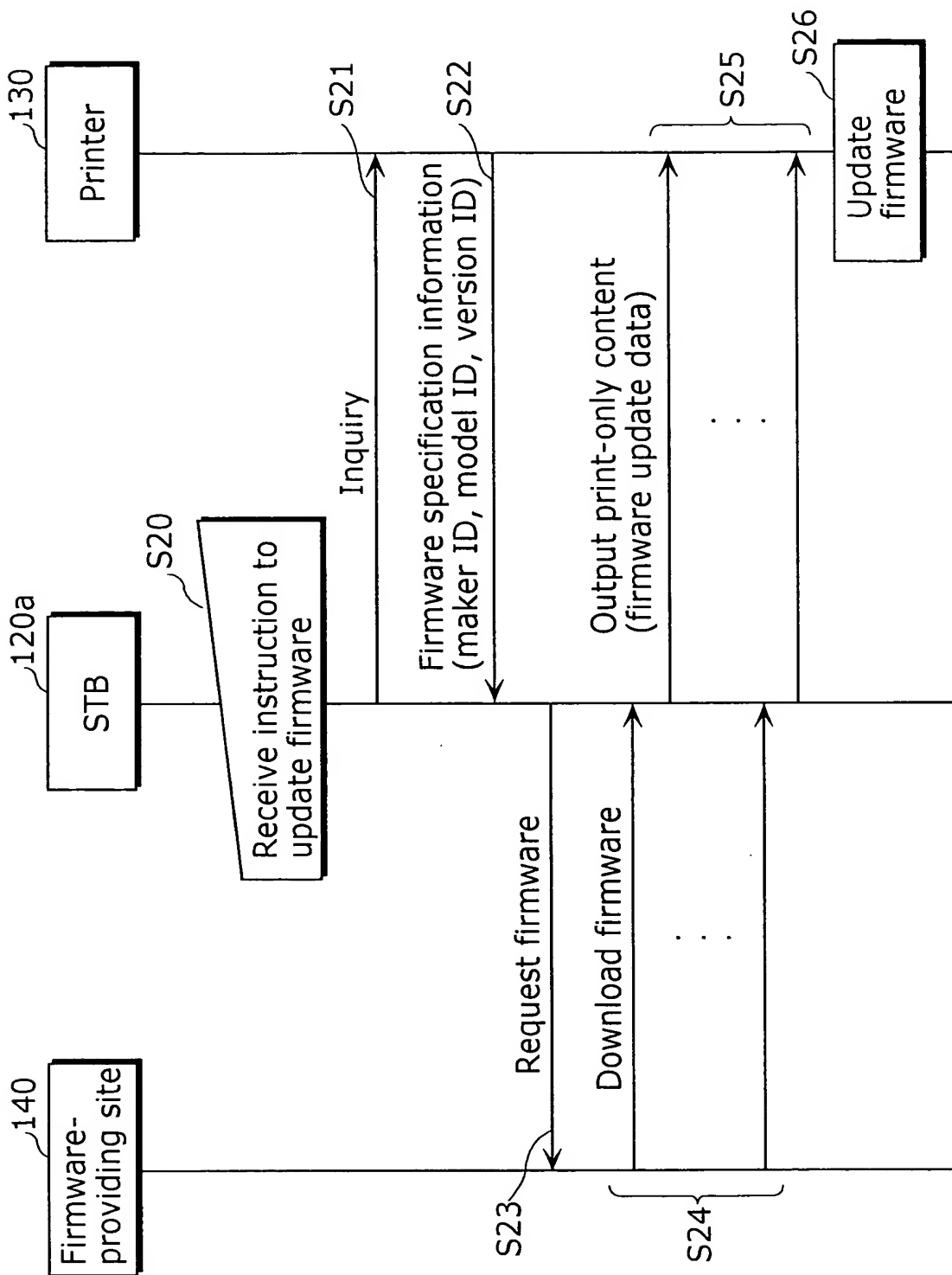


Fig. 20

Fig. 21

```

<?xml version="1.0" encoding="Shift_JIS" ?>
<!DOCTYPE bml PUBLIC "-//ARIB STD-B24:1999//DTD BML
Document//JA" "bml_1_0.dtd">
<?bml bml-version="1.0" ?>
<bml>
  <head>
    <title>update</title>
    <script>
<![CDATA[
  function keydown() {
    //in the case of only two makers
    if{browser.getPrinterMaker ID()==10} //in the case where maker ID is 10
    {
      if{browser.getPrinterTypeID()==1} //in the case where model ID is 1
      {
        if{browser.getPrinterSoftwareVersion()<2} //in the case where version ID is
no more than 2
        {
browser. print ("http://makerID/type1/v2/top_update_maker10_type1_v2.
xhtmlp "):
          //download from Internet and print (actually
update version) }
          }
          //omission
        }
        //omission
      }
      //omission
    }
  ]]>
    </script>
  </head>
  <body>
    //omission
  </body>
</bml>

```

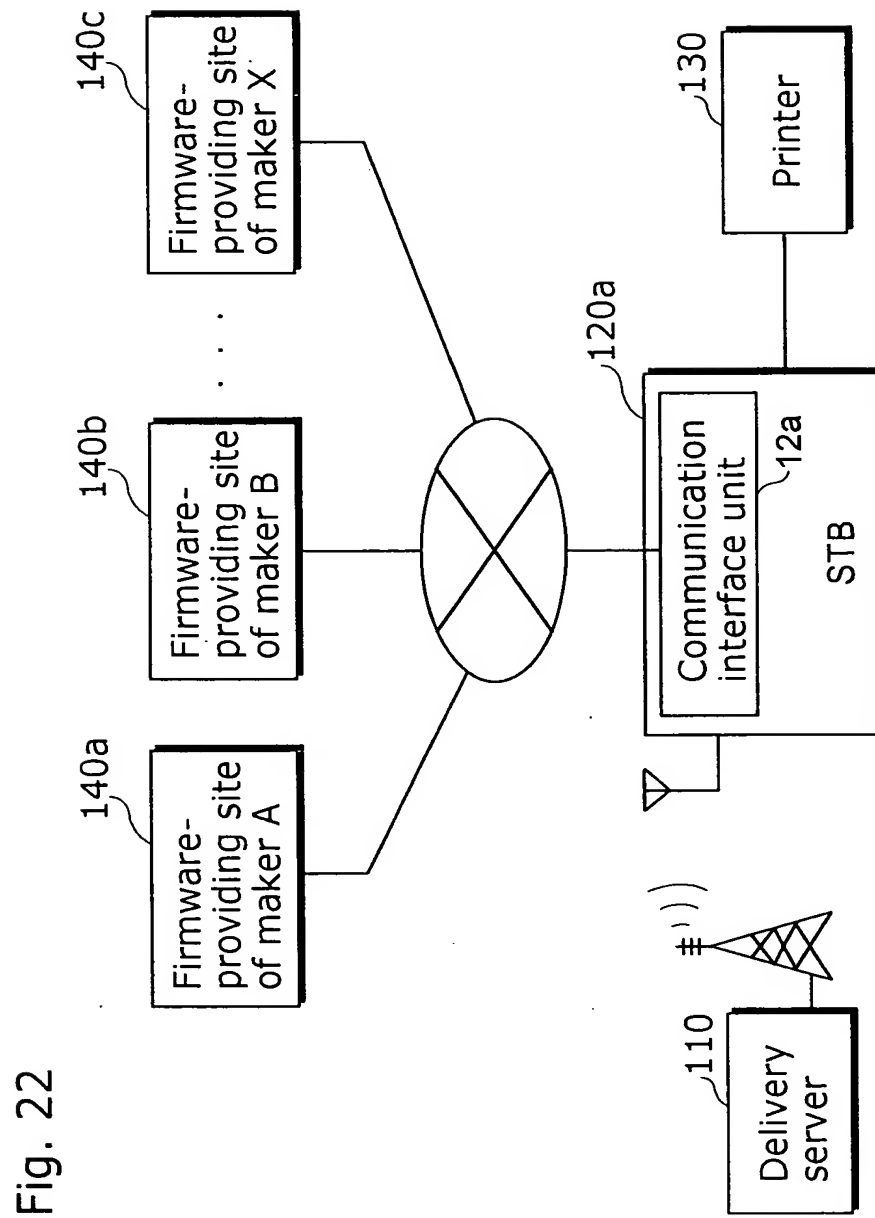


Fig. 23

```

<?xml version="1.0" encoding="Shift_JIS" ?>
<!DOCTYPE bml PUBLIC "-//ARIB STD-B24:1999//DTD BML
Document//JA" "bml_1_0.dtd">
<?bml bml-version="1.0" ?>
<bml>
  <head>
    <title>update</title>
    <script>
<![CDATA[
  function keydown() {
    //in the case of only two makers
    if{browser.getPrinterMaker ID()==10} //in the case where maker ID is 10
    {
      if{browser.getPrinterTypeID()==1} //in the case where model ID is 1
      {
        if{browser.getPrinterSoftwareVersion()<2} //in the case where version ID is
no more than 2
        {
browser. print ("http://maker10/type1/v2/top_update_maker10_type1_v2.
xhtmlp "):
  /top_update_maker10_type1_v2. xhtmlp ")
    browser_print("top_update_maker10_type1_v2. xhtmlp "):
      //download from Internet and print (actually update
version) }
        }
      //omission
    }
    //omission
  }
  //omission
}
]]>
  </script>
</head>
<body>
  //omission
</body>
</bml>

```

Fig. 24

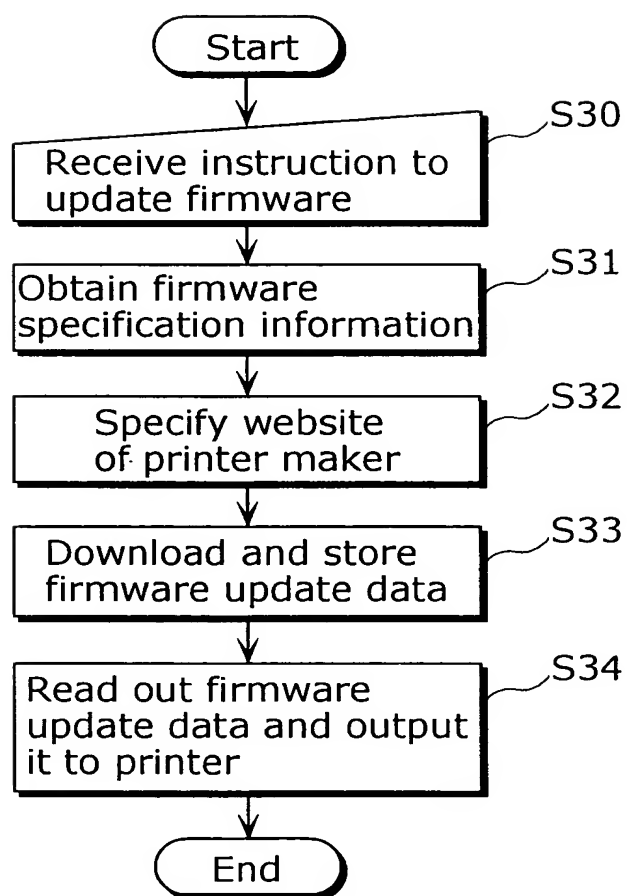


Fig. 25

```

<?xml version="1.0"?>
  <!DOCTYPE html PUBLIC "-//PWG//DTD XHTML-Print 1.0//EN"
    "http://www.pwg.org/xhtmll-print/xhtmll-print10.dtd">
  <html xmlns="http://www.w3.org/1999/xhtmll">
    <head>
      <title> Update </title>
    </style>
  </head>
  <body>
    <update printer_vendor="MEI" soft_version="5.0.1"
      machine_type="cefiro2002" option_unit="" >
      src="update.dll"/>
      <p>version of firmware is updated.
      present version is 5.0.1.</p>
    </update>
  </body>
</html>

```

L801

L802

L803

Fig. 26

